

with, and an amount of use thereof, it is preferable to select the good heat-conductive resin 40 depending on an amount of the heat generation in the stator core 10 and in the stator coil 11.

Page 11, please amend the paragraph beginning at line 30 as follows:

Onto the partition member 26b is fixed a voltage regulator 30 for maintaining the voltage generated at a constant irrespective of rotation speed thereof by adjusting current to the excitation coil 4, and a rectifier 29 for converting AC generated by the stator coil 11 into DC. Preferably, both the voltage regulator 30 and the rectifier 29 are in good thermal contact with the partition member 26b, by using a grease, etc., for obtaining good heat radiation thereto. The voltage regulator and the rectifier 29 constitute a part of the electric appliances. The partition member 26b separates between a side of the slip ring, the voltage regulator 30 and the rectifier 29, and a side of the rotor 1 and the stator 12, and it also functions as a means for conducting heat from the rear bracket body 26 to a rear bracket cover 28. However, the voltage regulator 30 and the rectifier 29 may be so constructed that each one is fixed onto the rear bracket body 26a directly, if being better in workability of assembling. Also, with the brushes 8 and the brush rings 9, it is necessary to take the provision of, such as, a partition wall, etc., into the consideration, for the purpose of separating them from the surroundings thereof, so that brush powder generated from the friction between both will not fly all over the other parts, thereby causing no breakdown of insulation, etc., for example, in the rectifier 29.

IN THE CLAIMS:

Please amend claims 1, 7, 9 and 10 as follows:

1. (amended) An alternator for use in a vehicle, comprising:
a stator having a stator core being formed in a cylindrical shape and a stator coil wound around said stator core;